

CLAIMS

What is claimed is:

1. A vibration absorbing device comprising a rubber vibration absorbing element, said rubber element comprising: 100 parts of ethylene-alpha-olefin elastomer; and 20 to 100 parts of substantially isobutylene or butene polymer having a viscosity average molecular weight greater than about 5000.
2. The device of claim 1 wherein said device is a crankshaft torsional vibration dampener.
3. The device of claim 1 wherein said rubber element is cured by a free-radical-producing material.
4. The device of claim 3 wherein said free-radical-producing material is selected from the group consisting of organic peroxides and ionizing radiation.
5. The device of claim 4 wherein said elastomer is selected from the group consisting of ethylene-propylene copolymers, ethylene-propylene-diene terpolymers, ethylene-octene copolymers, ethylene-octene-diene terpolymers, ethylene-butene copolymers, ethylene-butene-diene terpolymers, and blends thereof.
6. The device of claim 5 wherein said polymer has a viscosity average molecular weight greater than about 10,000.
7. The device of claim 5 wherein said polymer has a viscosity average molecular weight in the range from about 50,000 to about 1,250,000.
8. A torsional vibration damper comprising a free-radical-cured rubber vibration absorbing element, wherein said rubber element comprises: 100 parts of ethylene-alpha-olefin elastomer; and 20 to 100 parts of one or more polymers having a viscosity average molecular weight in the range from about 50,000 to about 1,250,000 selected from the group consisting of polybutylene, polyisobutylene, polybutene, and polyisobutylene-co-isoprene.
9. A rubber composition comprising: 100 parts of ethylene-alpha-olefin elastomer; and an amount of substantially isobutylene or butene

- polymer having a viscosity average molecular weight above about 5000 effective for substantially increasing the vibration damping character of the composition as indicated by an increase in $\tan \delta$ of greater than about 20 percent.
- 5 10. The composition of claim 9 further comprising: a metal-adhesive adjuvant.
11. The composition of claim 9 wherein said polymer is a copolymer of isobutylene and isoprene having less than about 1 mole per cent isoprene.
- 10 12. The composition of claim 11 wherein said polymer has a viscosity average molecular weight in the range from about 50,000 to about 1,250,000.
13. The composition of claim 12 wherein said composition is peroxide cured.
- 15 14. A article selected from the group consisting of a belt, a hose and a vibration control device; comprising: molded or extrusion-formed, free-radical-cured, ethylene-alpha-olefin rubber, said rubber comprising: substantially isobutylene or butene polymer having a viscosity average molecular weight greater than about 5,000 in an amount effective for substantially increasing the damping character of the rubber.
- 20 15. The article of claim 14 wherein said polymer has a viscosity average molecular weight in the range from about 50,000 to about 1,250,000.